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WORLD HEADQUARTERS
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Quality and Innovation Since 1963

Printed in Canada

SERVICE MANUAL

MODEL TYPE: YS1037

NX750P

IMPORTANT SAFETY INSTRUCTIONS

This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un « voltage dangereux » non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choque électrique.

CAUTION *AVIS*

RISK OF ELECTRIC SHOCK DO NOT OPEN

RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

The exclamation point within an equilatereal triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

S2125A

FOLLOW ALL INSTRUCTIONS

Instructions pertaining to a risk of fire, electric shock, or injury to a person

***CAUTION*: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).**

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Clean only with dry cloth.

Packaging: Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning: To reduce the risk or fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

Warning: When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

SUIVEZ TOUTES LES INSTRUCTIONS

Instructions relatives au risque de feu, choc électrique, ou blessures aux personnes

AVIS:* AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE) *NE CONTIENT AUCUNE PIECE

REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT

Veuillez Lire le Manuel: Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachements/accessoires indiqués par le fabricant

Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appeil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que lappareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service

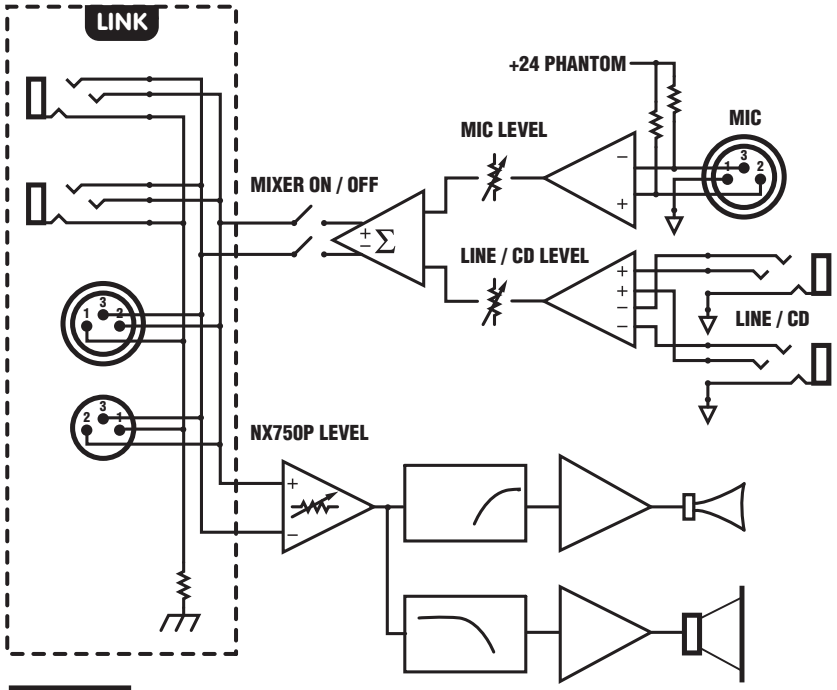
Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

NX750P Parts List 11/12/2009

YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	1
5907	YEL 3MM LED 1V9 20MA.4SPCER T&R	1
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	1
6421	MR752 200V 6A0 DIODE	4
6438	1N4007 1000V 1A0 DIODE T&R	2
6733	BAT85 30V 0A2 DIODE SCHT T&R	6
6825	1N4148 75V 0A45 DIODE T&R	19
6827	1N5402 200V 3A0 DIODE	8
6892	UF4004 200V 1A0 DIODE ULTRAFAS	1
6934	MR854 400V 3A0 DIODE FASREC	2
6426	1N5254B 27V0 0W5 ZENER 5% T&R	1
6432	1N5248B 18V0 0W5 ZENER 5% T&R	2
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	3
6450	1N5242B 12V0 0W5 ZENER 5% T&R	3
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1
6463	1N5251BRL 22V0 0W5 ZENER 5% T&R	1
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1
6728	MC78L05ACP TO92 P 5V0 REG TR V4	1
6824	1N5246B 16V0 0W5 ZENER 5% T&R	2
6871	MC7915CT TO220 N 15V0 REG V2	1
6872	MC7815CT TO220 P 15V0 REG V1	1
5101	BC550C TO92 NPN TRAN T&R TB	1
5102	BC560C TO92 PNP TRAN T&R TB	2
5103	MPSA06 TO92 NPN TRAN T&R TA	1
5105	MPSA13 TO92 NPN DARL T&R TA	1
5107	2N5551 TO92 NPN TRAN T&R TA	2
5108	2N5401 TO92 PNP TRAN T&R TA	4
5114	MPSA92 TO92 PNP TRAN T&R TA	2
5119	2N5638 TO92 NCH JFET T&R TC	2
6873	MJE340 TO126 NPN TRAN TG	1
6911	BDX54C TO220 PNP TRAN DARL TE	1
6912	BDX53C TO220 NPN TRAN DARL TE	1
6931	IRFP140N TO247 NCH MFET TM	1
6932	IRFP9140N TO247 PCH MFET TM	1
6967	IRFP23N50L TO247 NCH MFET TM	2
6603	74HC14N IC HEX INV SCHMID	2
6605	74HC86N IC QUAD 2INP XOR	1
6640	LM311 IC VOLTAGE COMPARATOR	3
6804	MC33079P IC QUAD OP AMP	1
6840	MC33078P IC DUAL OP AMP	1
6884	NE5532N IC DUAL OP AMP	16
6887	IR2110 IC HILO FET DRIVER	1
6964	74HC74N IC DUAL FLIPFLOP	1
5190	MBS4992 TO92 8V5 DIAC T&R	1
6517	STM-BTB-600BRG TO220 ??A TRIAC 600V	1
6858	NSL-32SR2 OPTO-COUPLER LDR	2
5401	_10P 500V 5%CAP T&R RAD CER.2"NPO	1
5406	_33P 50V 10%CAP BLK BEAD NPO	2
5817	_15P 100V 2%CAP T&R RAD CER.2"NPO	1
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	1
5203	_47P 100V 2%CAP T&R RAD CER.2"NPO	1
5410	100P 100V 10%CAP T&R BEAD NPO	1
5412	220P 100V 10%CAP T&R BEAD NPO	2
5201	470P 100V 5%CAP T&R RAD CER.2"NPO	6
5208	__2N2 400V 5%CAP T&R RAD .2"FLM	2
5275	__3N3 100V 5%CAP T&R RAD .2"FLM	3
5422	__1N 50V 10%CAP T&R BEAD NPO	2
5816	680P 100V 5%CAP T&R RAD CER.2"NPO	4
5204	_10N 100V 10%CAP T&R RAD .2"FLM	2
5207	_18N 100V 5%CAP T&R RAD .2"FLM	1
5209	__4N7 250V 5%CAP T&R RAD .2"FLM	1
5210	_22N 100V 10%CAP T&R RAD .2"FLM	1
5215	_27N 100V 5%CAP T&R RAD .2"FLM	3
5222	_33N 100V 10%CAP T&R RAD .2"FLM	1
5224	_47N 100V 10%CAP T&R RAD .2"FLM	2
5271	__5N6 100V 5%CAP T&R RAD .2"FLM	1
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1
5212	100N 63V 5%CAP T&R RAD .2"FLM	43
5226	_68N 100V 5%CAP T&R RAD .2"FLM	6
5228	100N 100V 5%CAP T&R RAD .2"FLM	1
5229	150N 63V 10%CAP T&R RAD .2"FLM	1
5231	220N 63V 10%CAP T&R RAD .2"FLM	1
5233	330N 63V 5%CAP T&R RAD .2"FLM	3
5234	470N 63V 10%CAP T&R RAD .2"FLM	3
5242	100N 250V 20%CAP BLK 'X2' 15MM AC	1
5314	100N 50V 10%CAP T&R BEAD X7R	2
5254	__1U 63V 20%CAP T&R 4X7MM .2"EL	1
5255	__1U 63V 20%CAP T&R RAD .2"EL	2
5257	__2U2 63V 20%CAP T&R RAD .2"EL	2
5258	__4U7 63V 20%CAP T&R 8X7MM .2"EL	4
5266	680N 250V 20%CAP BLK 'X2' 30MM AC	1
5949	__3U3 140AC10%CAP BLK RAD POLYP FLM	3
5951	__3U3 250DC10%CAP BLK MPOLYP FLM	1
5260	_22U 50V 20%CAP T&R RAD .2"EL	1
5282	_10U 16V 20%CAP T&R 5X7MM .2"NP	2
5631	_22U 50V 20%CAP T&R 6X7MM .2"EL	3
5945	_10U 63V 20%CAP T&R RAD .2"EL	3
5961	_33U 16V 20%CAP T&R RAD .2"NP	5
5265	_68U 25V 20%CAP T&R RAD .2"EL	1
5862	3300U 180V 20%CAP RAD 40X50MM 5PIN	2
5887	2200U 50V 20%CAP BLK 18X27MM EL	2
5912	2200U 63V 20%CAP RADIAL ELECT BULK	2
4432	_10K B LIN 9MM P32	2
4434	_10K B LIN 9MM DETENT P32	2
4435	_50K B LIN 9MM DETENT P32	1
706	1/2"X48"X250' DURABUBBLE	42
713	25 X 20 X 50 2 MIL PLASTIC BAG	1
3976	SNAP ON 0.843" INSULATING BUSHING	1
6492	1300UH COIL COMMON MODE 4AMP	1
8483	ADAPTOR,SPEAKER STAND,METAL,BLACK	1
8538	RUBBER BUMPER W/ WASHER 1.375X1.375	3
3485	CLIP 250X032 18-22AWG RIGHT ANGL	4
3489	CLIP 250X032 18-22AWG DISCO/INSL	9
3490	CLIP 250X032 14-16AWG DISCO/INSL	7
3921	1/4" JCK PCB MT VERT STER RT SWT	4
3453	XLR MALE PCB MT VERT	1
4010	XLR FEML PCB MT VERT 24MM AA-SERIES	2
3482	LOWPROFILE FUSEHOLDER 1/4" BUSSMANN	1
2465	_7.0 AMP FAST-BLO .25X1.25 FUSE	1
2487	_7.0 AMP SLO-BLO T&R FUSE	2
7393	_8R 30W 1.00" DRIVER BMS	1
3501	B52200F006 COMP WASH #4 SMALL	9
8933	1/4-20 INSIDE 7/16-20 UNF FLATALLEN	5
8938	1/4-20 X 10MM INSERT NUT, TYPE D	8
3645	AC SOCKET RECEPTACLE WITH 0.250 TAB	1
3810	4" NYLON CABLE TIE	12
3841	5.5" NYLON CABLE TIE	2
3852	STICK ON CABLE WRAP ANCHOR	1
3558	TERM HOUSING 4 CIR .156/RAMP	1
3559	TERM HOUSING 8 CIR .156/RAMP	1
3674	9 CIR CABLE HOLDER .098	1
4004	_9 CIR WAFER W/LCK VT 0.1"	1
3538	24 PIN BREAKAWAY LOCK .156	0.46
3549	TRIFURCON TERM .156	12
8632	KNOB ROUND PUSHBUTTON 1/4" GREY	2
9915	KNOB 0-DEG RED SOFT GRAY RIB	2
9916	KNOB 0-DEG GRY SOFT GRAY RIB	1
9917	KNOB 0-DEG GRN SOFT GRAY RIB	2
3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1
3826	STRAIN RELIEF HEYCO #1150	1
8240D	LOGO YORKVILLE SMALL BLUE DOMED	1
3792	_288UH CHOKE 89T20AWG/77091MAGNTKS	1
3792CORE	77091-A7 KOOL-MU TOROID CORE	1
8701	4-40 KEPS NUT ZINC	9
8939	10-32 X 10MM INSERT NUT, TYPE D	45
8800	6-32 KEPS NUT ZINC	2
8787	8-32 KEPS NUT ZINC	3
8934	7/16-20 UNF HEX NUT GRD 5 CLEAR ZNC	5
8797	5/16-18 KEPS NUT JS500	1
3884	SARCON THERMAL GASKET 4.55"X1.00"	1
NX15PCABINET	15"NX SET W/POWER BACK BLACK PLASTC	1
4599	22AWG SOLID SC WIR T&R JMP	6
5299	24AWG SOLID SC WIR RAD JMP	1
4660	5.0W 0R047 5% BLK RES	2
2005	1.0W 0R47 5%FLAME PROOF T&R RES	4
4682	1/2W 1R 5%PHILIPS SMAL T&R RES	1
4911	1/4W 2R2 5% T&R RES	1
4813	1/4W 6R2 5% T&R RES	2
2010	1/8W 10R0 2%FLAME PROOF T&R RES	4
4930	1/4W 10R 5% .2"U T&R RES	1
2038	1/4W 11R FUSIBLE T&R RES	2
6134	1/4W 47R 5%MINI T&R RES	1
2018	1/8W 75R 2%FLAME PROOF T&R RES	3
2019	1/8W 100R0 1%FLAME PROOF T&R RES	3
4921	1/4W 100R 5% .2"U T&R RES	1
4984	1/4W 150R 5%MINI T&R RES	1
4819	1/4W 180R 5% T&R RES	2
4944	1/4W 220R 5% .2"U T&R RES	1
4977	1/4W 220R 5%MINI T&R RES	2
2024	1/8W 249R 2%FLAME PROOF T&R RES	3
4945	1/4W 270R 5% .2"U T&R RES	1
6150	1/4W 301R 1%MINI MF T&R RES	1
4789	1/4W 324R0 0.1% *** T&R RES	1
2026	1/4W 332R0 1%FLAME PROOF T&R RES	1
4690	1/2W 442R 1% T&R RES	1
4933	1/4W 470R 5% .2"U T&R RES	3
4980	1/4W 470R 5%MINI T&R RES	1
5029	1/4W 499R 1% T&R RES	1
2028	1/8W 475R 1%FLAME PROOF T&R RES	3
5014	1/4W 562R0 0.1% *** T&R RES	4
2030	1/8W 681R 1%FLAME PROOF T&R RES	3
4743	1/4W 681R0 0.1% *** T&R RES	2
4923	1/4W 680R 5% .2"U T&R RES	1
2031	1/8W 820R 5%FLAME PROOF T&R RES	1
4934	1/4W 1K 5% .2"U T&R RES	2
6110	1/4W 1K0 1%MINI MF T&R RES	16
4996	1/4W 1K070 0.1% *** T&R RES	1
4585	1/4W 1K2 5%MINI T&R RES	3
4611	0.6W 18K7 1% MF T&R RES	2
4769	1/4W 1K4 1% T&R RES	5
2034	1/8W 1K5 5%FLAME PROOF T&R RES	2
4935	1/4W 1K5 5% .2"U T&R RES	4
4683	1.0W 1K8 5% T&R RES	1
6105	1/4W 1K8 5%MINI T&R RES	3
4946	1/4W 2K 5% .2"U T&R RES	2
6113	1/4W 2K 5%MINI T&R RES	3
4705	2.0W 2K2 5% BLK RES	2
6104	1/4W 2K2 5%MINI T&R RES	6
2035	1/4W 2K21 1%FLAME PROOF T&R RES	2
6114	1/4W 2K49 1%MINI MF T&R RES	2
4764	1/4W 2K740 0.1% *** T&R RES	1
6124	1/4W 3K 5%MINI T&R RES	2
4938	1/4W 3K3 5% .2"U T&R RES	1
5022	1/4W 3K57 1% T&R RES	1
4850	1/4W 3K9 5% T&R RES	1
4756	1/4W 4K120 0.1% *** T&R RES	2
4943	1/4W 4K7 5% .2"U T&R RES	7
4982	1/4W 4K7 5%MINI T&R RES	2
6128	1/4W 4K99 1%MINI MF T&R RES	1
5001	1/4W 6K04 1% T&R RES	1
4978	1/4W 6K8 5%MINI T&R RES	5
4768	5.0W 12K 5% BLK RES	5
4940	1/4W 10K 5% .2"U T&R RES	10
6116	1/4W 10K0 1%MINI MF T&R RES	10
4979	1/4W 15K 5%MINI T&R RES	3
4954	1/4W 18K 5% .2"U T&R RES	3
6123	1/4W 20K0 1%MINI MF T&R RES	2
6118	1/4W 22K 5%MINI T&R RES	3
4956	1/4W 27K 5% .2"U T&R RES	3
4941	1/4W 30K 5% .2"U T&R RES	1
4947	1/4W 33K 5% .2"U T&R RES	2
4686	1/4W 37K4 1% METAL FILM T&R RES	3
4927	1/4W 47K 5% .2"U T&R RES	4
6119	1/4W 47K 5%MINI T&R RES	4
4835	1/4W 56K 5% T&R RES	1
4848	1/4W 62K 5% T&R RES	1
4929	1/4W 82K 5% .2"U T&R RES	1
4942	1/4W 100K 5% .2"U T&R RES	1
4638	1/2W 150K 5% T&R RES	1
4796	1/4W 180K 5%MINI T&R RES	1
4949	1/4W 180K 5% .2"U T&R RES	2
6135	1/4W 270K 5%MINI T&R RES	1
6127	1/4W 470K 5%MINI T&R RES	1
4948	1/4W 1M 5% .2"U T&R RES	7
3535	10.0" 9C-26AWG RIB 1 W/LCK HDR 098"	1
3696	RELAY 1C 02AMP DC24 006MA PC-S	1
3790	EMI FILTER FOR RIBBON CABLE	1
9041	.093" HOLE .156" STAG 16GA 36"X120"	4
9070	18GA ELECTRO GALV STEEL 4'X8' SHEET	2.78
9140	.125" 48X96 UTILITY ALUM SPV 1 SIDE	0.26
9141	.125" 48X96 UTILITY ALUMINUM	1.33
9250	.040" 48X96 5052H32 ALUM VINYL LAMI	0.4
9549	.187" 48X96 UTILITY ALUMINUM	0.616
9640	.025" FISHPAPER (FLAT 48" SHEETS)	0.13
8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	6
8865	4-40 X 5/16 PAN PH MS JS500	4
8871	4-40 X 5/8 PAN PH MS JS500	9
8799	#6 X 1/4 PAN PH TYPE B JS500	1
8832	6-32 X 1/4 PAN PH TAPTITE JS500	8
8801	6-32 X 3/8 PAN PH TAPTITE JS500	13
8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	4
8796	6-32 X 5/8 PAN PH TAPTITE ZINC	11
8803	8-32 X 3/8 PAN PHIL TAPTITE JS500	7
8804	8-32X1.25 PAN PH MS ZINC CLEAR	4
8843	10-32 X 1 1/8 FLAT QUAD MS JS500	4
8786	10-32 X 1 1/4 PAN QD MS JS500 BLACK	38
8751	10-32 X 2 PAN QUAD MS JS500	3
8935	1/4-20 X 23MM JOINT CON. BOLT □B/O	4
8847	1/4-20 X 1 1/4 FLAT PH MS JS500	4
8926	5/16-18X3 CARRIAGE BOLT ZINC	1
8879	M5 X 10 DIN 7985 QUAD ZINC SCREW	2
8995	3/8" STEEL FLAT WASHER,BLACK	5
3751	SNAP IN 5/16 SPACER RICHCO	7
3851	1/2 PCB PLASTIC SPACER	6
3859	1/2 PLASTIC HEX SPACER #4	2
7410	15" 8R 600WPGM SPKR NEO 15-286-8	1
8908	#10 SAE FLAT WASHER .25"ID .565" OD	18
8921	#3MM ID3.2MM OD7.0MM THICK 5MM	4
8667	SHOULDER WASHER SWS-229 LENGTH 1/8	4
8482	3/8 1D FLAT WASHER	4
8489	1/4-20 SPLIT WASHER BLACK OXIDE	20
8492	7/16" SPLIT LOCK WASHER CLEAR ZINC	5
3522	DPDT MINI PC VERT SNP ALT	2
3585	DPDT ROKR SW QUIK 250" AC/PWR IEC65	1
3392	250 MALE TAB .2IN T&R	17
3395	THERMO/BRKR:N/CLOSED OPEN@82C	1
CH1337	NX750P POWER TRFMR T'RD	1

nx750P

750 WATT POWERED LOUDSPEAKER ENCLOSURE



Yorkville

NOTES:
- ALL LINK CONNECTIONS FUNCTION AS INPUTS OR OUTPUTS.
- EXTERNAL MIXERS CONNECT TO LINK INPUTS

BLOCK-NX750p-1v0.pdf

MAIN INPUT

FROM MIXER

TRIM /GAIN

MASTER CLIP

TO M1339 LIMITER BOARD (RoHS)

TO M1339 LIMITER BOARD (RoHS)

2K5 NOTCH

3K9 NOTCH

8K NOTCH

TO POWER AMP PCB

HORN SIGNAL

HORN GND

WOOFCLIP

WOOF GND

WOOF SIGNAL

LIMITER

HORN LIMITER CONTROL

non-RoHS

ONLY FOR N.A. REPLACE THE R89 AND C19 WITH THIS CIRCUIT R87 REPLACED WITH #4599, 22AWG SOLID

300HZ NOTCH

WOOFER LIMITER CONTROL

non-RoHS

SUBWOOFER OUT/UP

SUBWOOFER IN/DOWN

LIMITER SENSE

POWER LED

6964_PC

6804_PC

6887_PC

6603_PC

6605_PC

MIXER SECTION

MIC INPUT

MIC GAIN

CD INPUT

LINE INPUT

LINE GAIN

BASS

TREBLE

SILENT MIXER ON/OFF

MIXER IN/OUT

TO MAIN INPUT

BD139
BD140
BD237
BD238
MJE270
MJE271
MJE340
MJE350

E C B
TO-126

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63

E B C
TO-92

6840_PC

6640_PC

6858_PC

6884_PC

79XX

G I O
TO-220

78XX

I G O
TO-220

BDX53C
MJF6668

B C E
TO-220

BC550C
BC560C

C B E
TO-92

"STYLE_P25"

Yorkville	Product NX750P		
	NX750P	PCB# M1231	Sheet 1 of 3
	Date: Mon May 11, 2009		Rev:4V0
	Filename: M1231V400sch.sch2002		

HORN AMP

PHANTOM SUPPLY

SILENT ON/OFF

FROM INPUT PCB

WOOFER AMP

+/-15V_C

FROM POWER SUPPLY

+/-15V_MOD

+5V_MOD

SILENT ON/OFF

Product	NX750P
NX750P	PCB# M1231 Sheet 2 of 3
Date: Mon May 11, 2009	Rev:4V0
Filename: M1231V400sch.sch2002	

Yorkville

M1231.PCB_DATABASE_HISTORY

MODEL(S):- NX750P

#	DATE	VER#	DESCRIPTION OF CHANGE
1	AUGUST 2004	V1.00	MADE FROM M1158-V.200
2	NOV-26-2004	.	PC#6772: REV. WIRE COLORS ON WOOFER & HORN (GT)
3	MAY30th 2005	V2.00	CHANGED POWER SUPPLY CAPACITORS TO NEW
4	.	.	FIVE LEG #5862 3300U & FORCE UPDATED BOARD (M.R)
5	.	.	C102 FROM 22N #6435 TO 100N #5242
6	SEP-21-2005	.	PC#6979:GT:R6&R23 #4815 12R->#2038 11R FUSIBLE
7	OCT-31-2005	.	PC7003:GT:R9 #4979 15K->#6104 2K2, ADD 8921 WASHER
8	DEC-13-2005	.	PC#7052:GT:Q14&Q15 6914 IRFP350->6967 IRFP23N50LPBF
9	AUG-16-2006	V2.01	AH, PC#7136, REPLACE R77, R81 AND R82 WITH #4686
10	.	.	37K4 1% 1/4W. REPLACE R78 WITH #4611
11	OCT 16 2006	V3.00	PC#7178, Updated limiter for RoHS compliance
12	.	.	PC#7167, ENLARGE HOLE SIZE FOR #3522
13	FEB 07 2007	V3.01	AH, PC#7205, C37 100N #5212 TO 470P #5201

M1231.PCB_DATABASE_HISTORY

MODEL(S):- NX750P

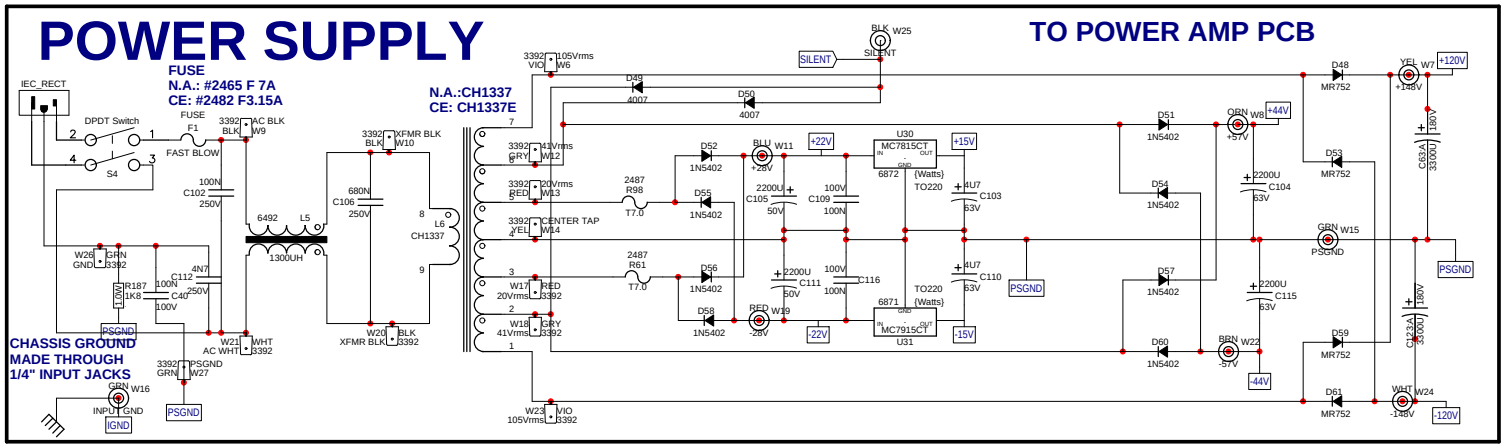
#	DATE	VER#	DESCRIPTION OF CHANGE
1	.	.	R177 4K7 #4982 TO 15K #4979
2	.	.	ONLY M1231A CE VER. R157 10K #4940 TO 3K3 #4938
3	.	.	D34 AND D43 1N4148 #6825 TO BAT 85 #6733
4	22-AUG-2007	V3.02	PC#7261, N.A. VERSION CHANGE R152 150K #4839 TO 56K #4835, R89 1K #4981 TO 56K #5018, C23 22U #5631TO 10U #5281 C19 1U #5254 TO 4U7 #5258
5	.	.	
6	.	.	
7	01-FEB-2008	V3.03	PC#7453, ONLY FOR NA. REMOVE C19 AND R89 FROM AH BA WILL PUT 33K,470R,100N AND 10U AS SHOWN
8	.	.	PC#7398, ADD CROWBAR CIRCUIT AND CHANGE FUSE
9	.	.	AT THE SAME TIME SEE PRODUCTION NOTE
10	.	.	ADDED. X1 REF REMOVED IN LAYOUT
11	11-MAY-2009	V4.00	N
12	D	V	
13	D	V	

XC85

POT LIST

MODEL(S):- NX750P

REF	FUNCTION	PART#	KNOB	{NEW}
P1	MAIN GAIN	#4434	GREY	#9916
P2	MIC GAIN	#4432	RED	#9915
P3	BASS CONTROL	#4435	GREEN	#9917
P4	CD/LINE GAIN	#4432	RED	#9915
P5	TREBLE CONTROL	#4434	GREEN	#9917
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N



	WITHOUT CROWBAR		WITH CROWBAR	
	N.A.	CE	N.A.	CE
TRANSFORMER	CH1337	CH1337E	CH1337	CH1337E
FUSE F1	#2465 F 7A	#2482 F3.15A	#2465 F 7A	#2479 F 5A

Yorkville

Product NX750P		
NX750P	PCB# M1231	Sheet 3 of 3
Date: Mon May 11, 2009	Rev:4V0	
Filename: M1231V400sch.sch2002		

M1231-NX750P

2 OZ COPPER

2/3

M1231V4.0 2/3
NX750P

XFMR BLK
BLK
AC BLK
BLK
AC WHT
WHT
XFMR BLK
BLK

BLU W11 +28V
ORN W8 +57V
BLK W25 SILENT
BRN W22 -57V
WHT W24 -148V
YEL W7 +148V

GRN W15
PSGND
GRN W27
PSGND
FROM INPUT PCB

RED W19 -28V

W26 GRN GND
FROM AC GROUND

C63
C123

TRANSFORMER SECONDARY'S CH1337

20Vrms RED
20Vrms RED
41Vrms GRY
41Vrms GRY
CENTER TAP YEL
105Vrms VIO
105Vrms VIO

1/3

M1231 NX750P V4.0

GRN INPUT GND W16

3/3

M1231 3/3 NX750P V4.0

BEC LOC

L1 288UH

RED POS-WOOFER

BLK NEG-WOOFER

M1231A CE
M1231B N. AME.

BLACK
YELLOW
RED
BLACK

SOCKET
SOCKET UPSIDE DOWN
NORMAL
NORMAL LARGE
SOCKET WITH DIRECTION
TAB

SEE NOTE 5

BlankSize - 11000x10000 Pcb Mech M1231 V4.0
M1231 V4.0

SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

PRODUCTION NOTES

1. NOTE THAT THERE ARE SEVERAL LINES ON THE DSBOTMASK LAYER. THESE MAY BE USED FOR MARCONI TEST POINTS SO HAVE THIS LAYER ON IF DOING ANY MODIFICATIONS.

2.MAKE SURE TO RTV ALL LARGE CAPACITORS TO SOMETHING CLOSE

3. SLIDE EMI FILTER OVER RIBBON BEFORE INSERTING INTO P.C.B.

**********IMPORTANT**********

4. ADD AMPLE RTV UNDER ENTIRE BASE OF OUTPUT COIL L1

5. LEADS FOR 5 WATT RESISTORS MUST BE BENT ON THE MACHINE LEAD LOOP MUST NOT BE ABOVE TOP OF RESISTOR

6. FIT #8921 FLAT WASHER BETWEEN #3501 BELL WASHER AND #8667 SHOULDER WASHER FOR Q2, Q10 U30 AND U31

7. AUTO INSERT DO NOT STUFF R21 BOARD ASSEMBLY, PUT #6125 18K 1/4W

8. PC7453, RESTORE HORN LIMITTER, CHECK THE PRODUCTION NOTES ON NEXT PAGE, PAGE 3. THIS IS ONLY FOR NORTH AMERICA UNITS.

9. PC7398, ADD CROWBAR CIRCUIT AND CHANGE THE FUSE VALUE AT THE SAME TIME.

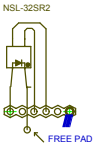
	WITHOUT CROWBAR		WITH CROWBAR	
	N.A.	CE	N.A.	CE
XFRM	CH1337	CH1337E	CH1337	CH1337E
FUSE F1	#2465 F 7A	#2482 F3.15A	#2465 F 7A	#2479 F 5A

10. M1231, PARTS REPLACEMENT TABLE

	M1231A CE	M1231B N. AMERICA
C23	#5961, 33U 16V 20%	#5281, 10U 50V 20%
C19	#5258, 4U7 63V 20%	DNS, SEE NOTE ON PAGE 3, PC7453
D34	#6733, 30V 0A2 DIODE	#6825, 75V 0A45 DIODE
D43	#6733, 30V 0A2 DIODE	#6825, 75V 0A45 DIODE
R87	#6110, 1K 1/4W 5% MINI	#4599, 22AWG SOLID
R89	#6126, 220K 1/4W 5% MINI	DNS, SEE NOTE ON PAGE 3, PC7453
R124	DNS	#6113, 2K 1/4W 5% MINI
R145	#6141, 5K6 1/4W 5%	#6128, 4K99 1/4W 1% MINI
R157	#4938, 3K3 1/4W 5%	#4940, 10K 1/4W 5%
U15	DNS	#6858 OPTO-COUPLER
U23	DNS	#6858 OPTO-COUPLER
W5	#3709, 7 in 6C-26AWG RIB 1 W/LCK HDR	DNS
W29	#4036, 8 in 4C-28AWG RIB 1 W/LCK HDR	DNS
X3	DNS	#4599, 22AWG SOLID

11. M1231B, U15 AND U23 ARE HAND INSERTED AFTER WAVE SOLDERING, PUT OPTOCOUPLERS AS SHOWN IN THE PHOTOS.

PHOTO 1 U15



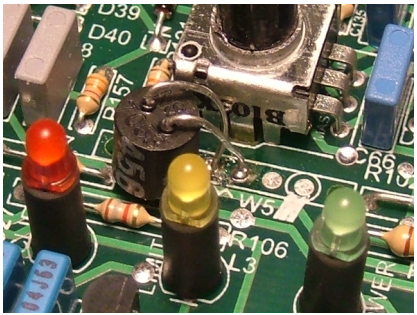
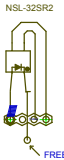
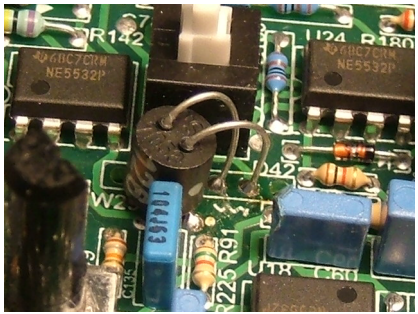


PHOTO 2 U23

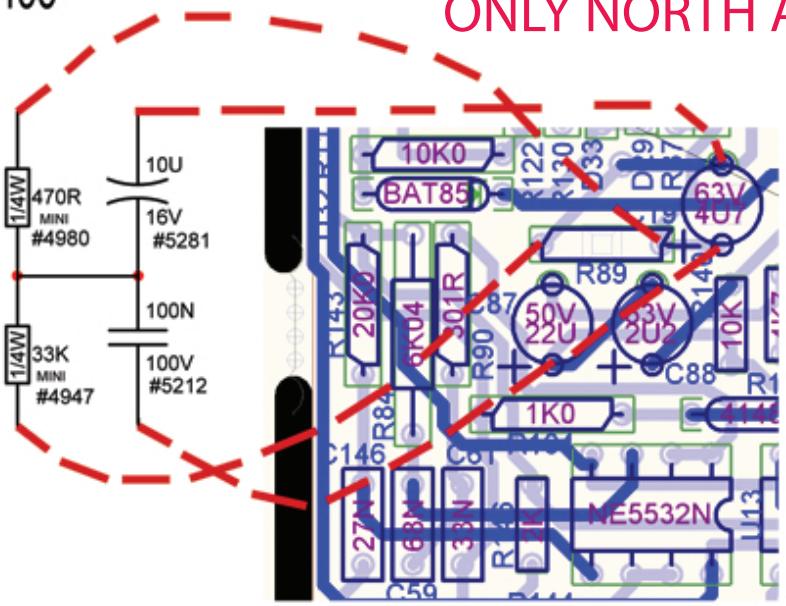




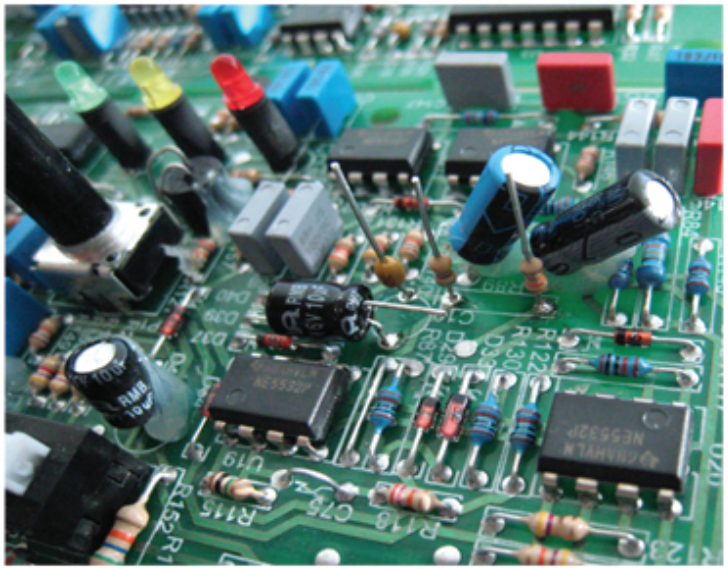
PC#7453

MODIFICATION INSTRUCTIONS FOR M1231B ONLY – MODEL NX750P

ONLY NORTH AMERICA

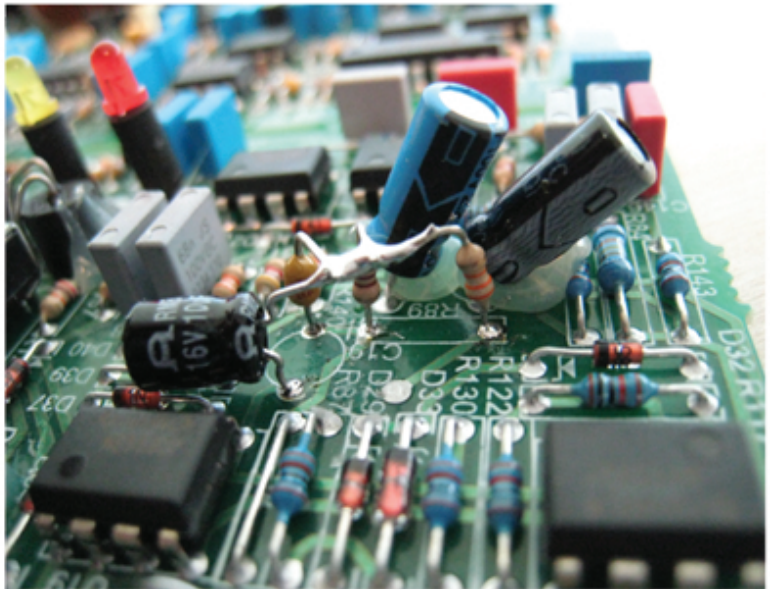


STEP 1: SOLDER THIS NETWORK WHERE R89 & C19 WOULD USUALLY BE PLACED. SEE PIC 1 & 2



PIC 1

STEP 2: SOLDER LEADS OF NETWORK IN OPEN HOLES OF R89 AND C19 AS SHOWN



PIC 2

STEP 3: SOLDER ALL OPEN ENDS TOGETHER

ONLY NORTH AMERICA

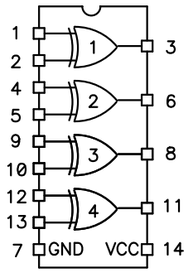
M1231.PCB_DATABASE_HISTORY			
MODEL(S):-	NX750P		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	AUGUST 2004	V1.00	MADE FROM M1158-V.200
2	NOV-26-2004	.	PC#6772: REV. WIRE COLORS ON WOOFER & HORN (GT)
3	MAY30th 2005	V2.00	CHANGED POWER SUPPLY CAPACITORS TO NEW
4	.	.	FIVE LEG #5862 3300U & FORCE UPDATED BOARD (M.R)
5	.	.	C102 FROM 22N #6435 TO 100N #5242
6	SEP-21-2005	.	PC#6979:GT:R6&R23 #4815 12R->#2038 11R FUSIBLE
7	OCT-31-2005	.	PC7003:GT:R9 #4979 15K->#6104 2K2, ADD 8921 WASHER
8	DEC-13-2005	.	PC#7052:GT:Q14&Q15 6914 IRFP350->6967 IRFP23N50LPBF
9	JUN-29-2006	V2.01	AH, PC#7136, REPLACE R77, R81 AND R82 WITH #4686
10	.	.	37K4 1% 1/4W. REPLACE R78 WITH #4611
11	OCT 16 2006	V3.00	PC#7178, Updated limiter for RoHS compliance
12	.	.	PC#7167, ENLARGE HOLE SIZE FOR #3522
13	FEB 07 2007	V3.01	AH, PC#7205, C37 100N #5212 TO 470P #5201

M1231.PCB_DATABASE_HISTORY			
MODEL(S):-	NX750P		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	.	.	R177 4K7 #4982 TO 15K #4979
2	.	.	ONLY M1231A CE VER. R157 10K #4940 TO 3K3 #4938
3	.	.	D34 AND D43 1N4148 #6825 TO BAT 85 #6733
4	22-AUG-2007	V3.02	PC#7261, N.A. VERSION CHANGE R152 150K #4839 TO
5	.	.	56K #4835, R89 1K #4981 TO 56K #5018, C23 22U #5631TO
6	.	.	10U #5281 C19 1U #5254 TO 4U7 #5258
7	01-FEB-2008	V3.03	PC#7453, ONLY FOR NA. REMOVE C19 AND R89 FROM AI.
8	.	.	BA WILL PUT 33K,470R,100N AND 10U AS SHOWN
9	.	.	PC#7398, ADD CROWBAR CIRCUIT AND CHANGE FUSE
10	.	.	AT THE SAME TIME SEE PRODUCTION NOTE
11	11-MAY-2009	V4.00	PC#7356, 7701, AND 7757 - PAD UPDATE, XLR MTG HOLE
12	D	V	ADDED. X1 REF REMOVED IN LAYOUT
13	D	V	N

POT LIST				
MODEL(S):-	NX750P			
REF	FUNCTION	PART#	KNOB	{NEW}
P1	MAIN GAIN	#4434	GREY	#9916
P2	MIC GAIN	#4432	RED	#9915
P3	BASS CONTROL	#4435	GREEN	#9917
P4	CD/LINE GAIN	#4432	RED	#9915
P5	TREBLE CONTROL	#4434	GREEN	#9917
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

SEE LAYOUT DIAGRAM

PIN CONFIGURATION



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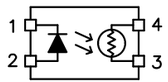

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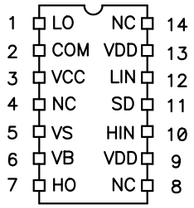

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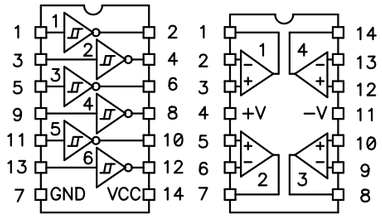

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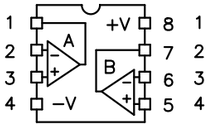

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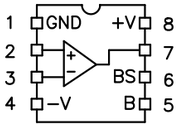
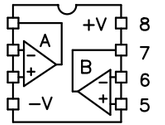


LM311



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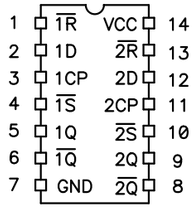

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78XX

79XX

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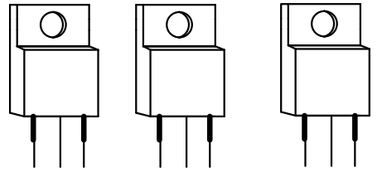
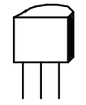


I G O
TO-220

G I O
TO-220

B C E
TO-220

BC550C
BC560C



C B E
TO-92

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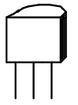
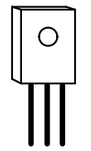
MPSA13
MPSA43
MPSA56
MPSA63

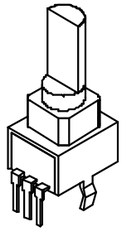


E B C
TO-92

BD139
BD140
BD237
BD238
MJE270
MJE271
MJE340
MJE350



E C B
TO-126



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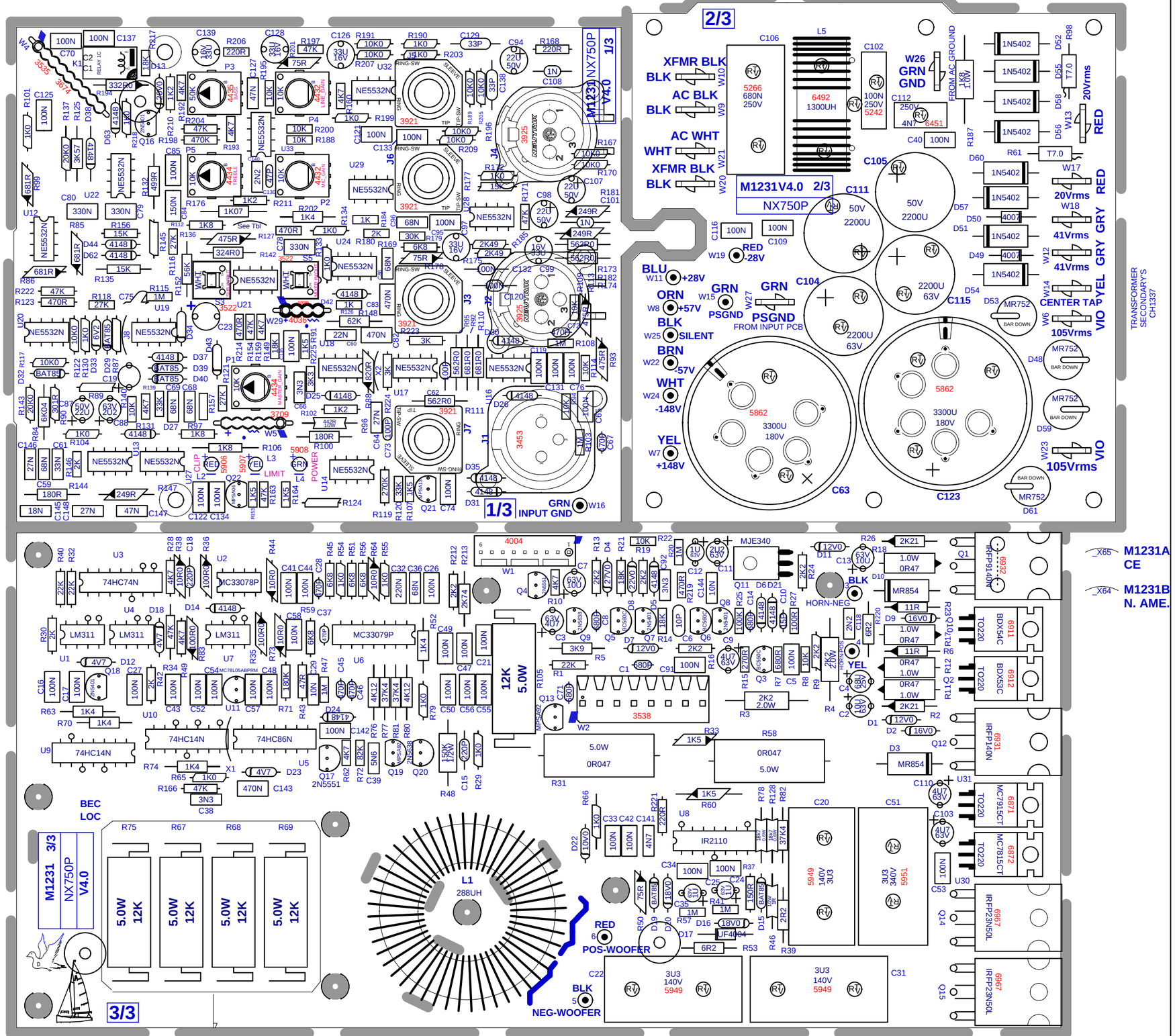
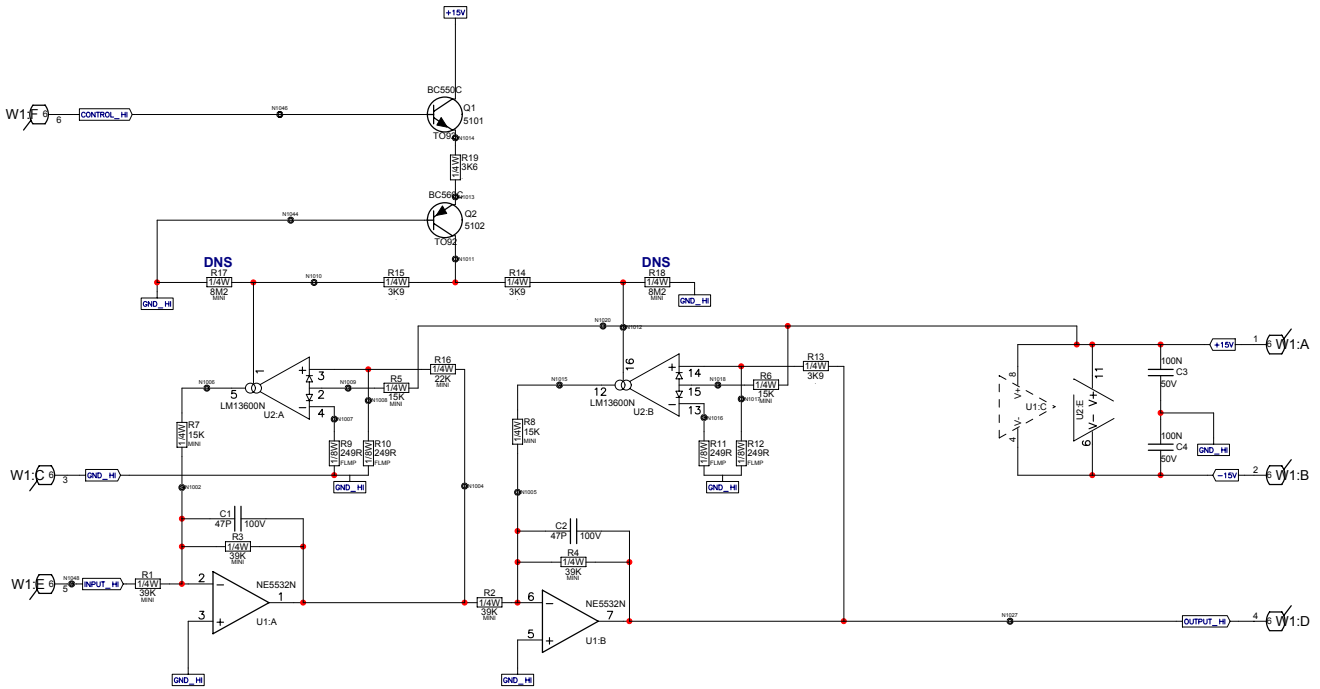
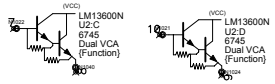


SEE NOTE 5

BlankSize - 11000x10000 Pcb Mech M1231 V4.0

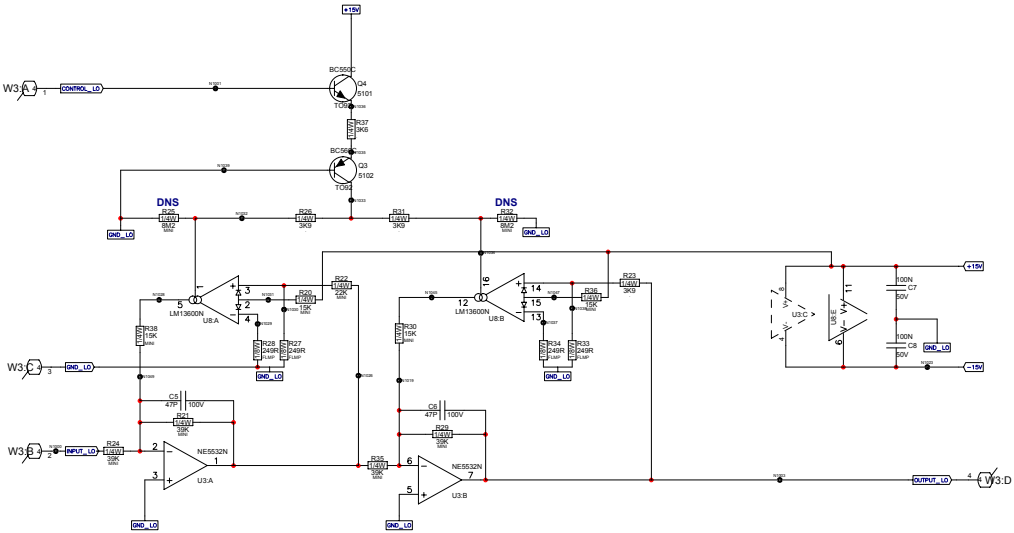


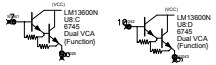


Yorkville

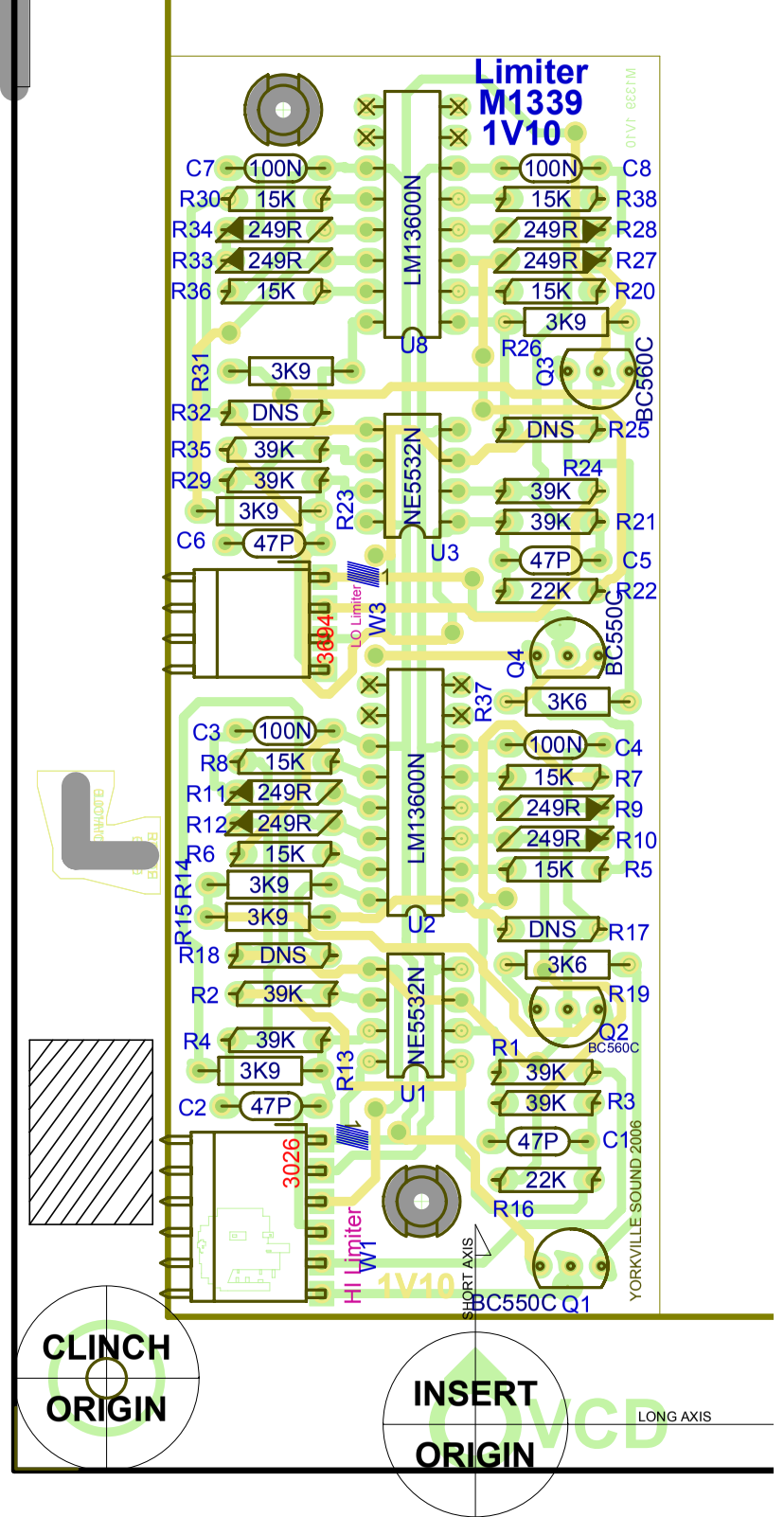
Product **RoHS Limiter**

Limiter_HI	PCB# M1339	Sheet 1 of 3
Date: Wed Mar 28, 2007	Rev:1V10	YsType:YsType
Filename: M1339-1V10 sch.sch2002		





Yorkville	Product **RoHS Limiter**		
	Limiter_LO	PCB# M1339	Sheet 2 of 3
	Date: Wed Mar 28, 2007	Rev:1V10	YsType:YsType
	Filename: M1339-1V10 sch.sch2002		


Limiter
M1339
1V10
C7
100N
R30
15K
R34
249R
R33
249R
R36
15K
LM13600N
U8
C8
100N
R38
15K
R28
249R
R27
249R
R20
15K
3K9
R26
Q3
BC560C
R31
3K9
R32
DNS
R35
39K
R29
39K
3K9
R23
C6
47P
NE5532N
U3
DNS
R25
R24
39K
39K
R21
47P
C5
22K
R22
Q4
BC550C
3004
LO Limiter
W3
1
R37
3K6
C3
100N
R8
15K
R11
249R
R12
249R
R6
15K
R14
3K9
R15
3K9
R18
DNS
R2
39K
R4
39K
3K9
R13
C2
47P
LM13600N
U2
NE5532N
U1
100N
C4
15K
R7
249R
R9
249R
R10
15K
R5
DNS
R17
3K6
R19
Q2
BC560C
R1
39K
39K
R3
47P
C1
22K
R16
3026
HI Limiter
W1
1
1V10
SHORT AXIS
BC550C Q1
YORKVILLE SOUND 2006
CLINCH
ORIGIN
INSERT
ORIGIN
LONG AXIS

M____.PCB_DATABASE_HISTORY			
MODEL(S):-	MODEL		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	19SEP2006	1V00	FIRST PROTO
2	20OCT2006	1V10	ADDED BEC LOC
3	24JAN2008	.	PC 7447, CHANGE W1, #3661 TO #3026
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

LEAD/PIN REFERENCE

MPSA56
MPSA06

E B C
TO-92

BC560C
BC550C

C B E
TO-92

SEE LAYOUT DIAGRAM

M____.PCB_DATABASE_HISTORY			
MODEL(S):-	MODEL		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

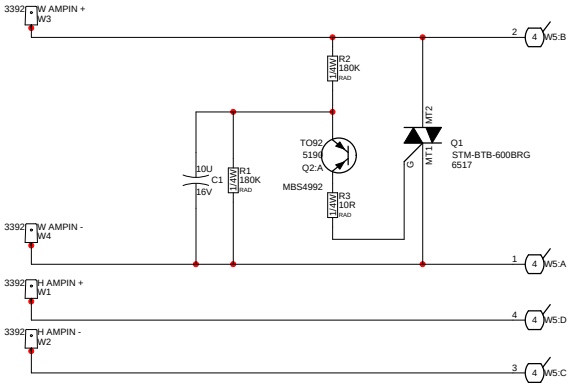
M____ PENDING CHANGES		
MODEL(S):-	MODEL	
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

{TITLE}				
MODEL(S):-	{MODEL}			
REF	FUNCTION	PART#	KNOB	{NEW}
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

PRODUCTION NOTES

1. Do not stuff parts R17,18,25,32

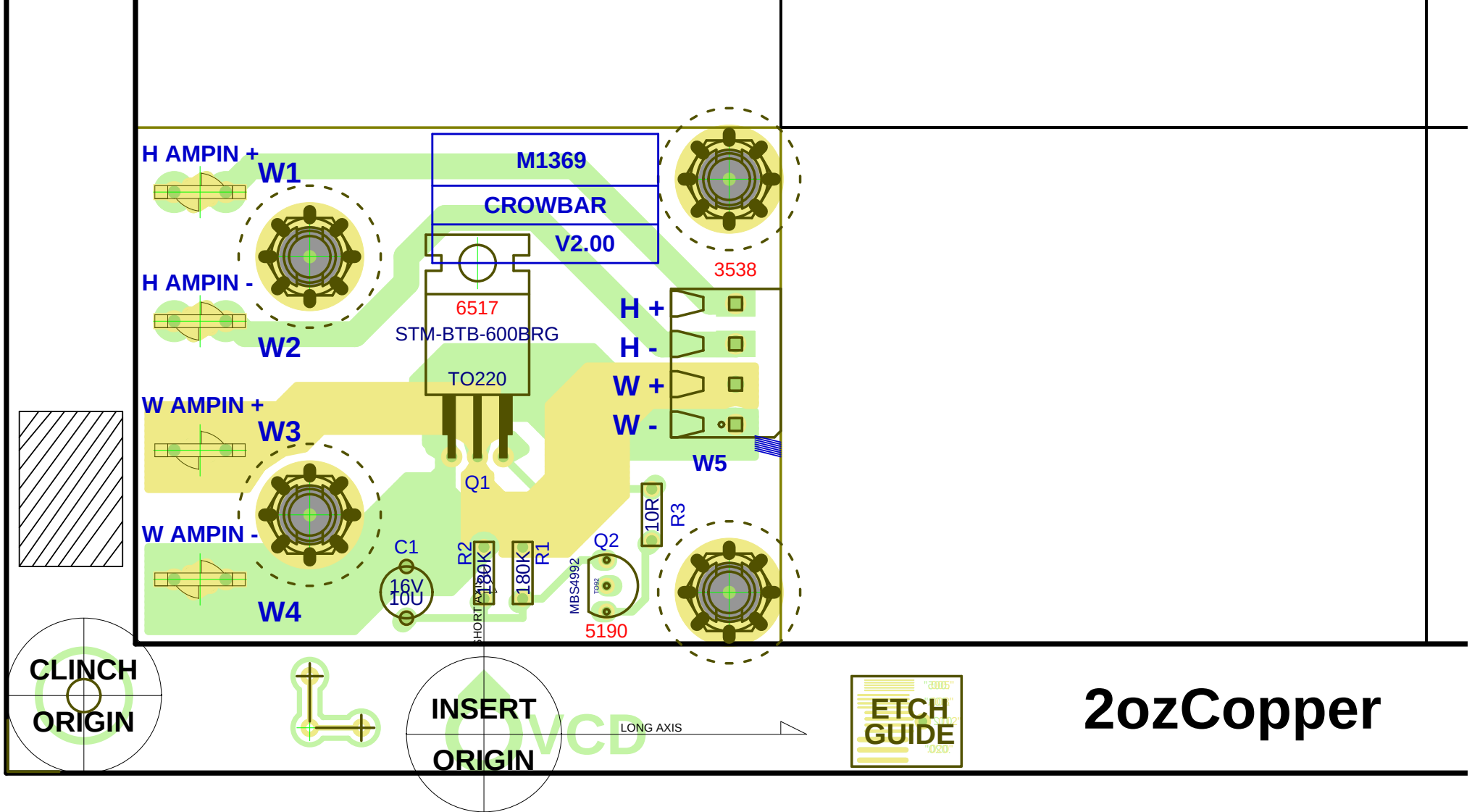


M1369 PCB_DATABASE_HISTORY			
MODEL(S):-		CROW BAR	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	28-NOV-2007	1.00	FIRST DESIGN
2	02-JUN-2008	2.00	UPDATE TABS
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

Yorkville

Product **CROW BAR**

Sheet1	PCB# M1369	Sheet 1 of 1
Date: Mon Jun 02, 2008	Rev:2.00	YsType:YsType
Filename: M1369V200sch.sch2002		


H AMPIN +
W1
H AMPIN -
W2
W AMPIN +
W3
W AMPIN -
W4
M1369
CROWBAR
V2.00
6517
STM-BTB-600BRG
TO220
Q1
3538
H +
H -
W +
W -
W5
C1
16V
10U
R2
100K
R1
180K
SHORT AXIS
Q2
MBS4992
5190
10R
R3
CLINCH
ORIGIN
INSERT
ORIGIN
LONG AXIS
ETCH
GUIDE
2ozCopper

SEE LAYOUT DIAGRAM

PRODUCTION NOTES

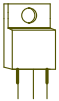
1. USE #8799, #6 1/4 PAN SCREW FOR TRIAC Q1

M1369 PCB_DATABASE_HISTORY			
MODEL(S):-	CROW BAR		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	28-NOV-2007	1.00	FIRST DESIGN
2	02-JUN-2008	2.00	UPDATE TABS
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

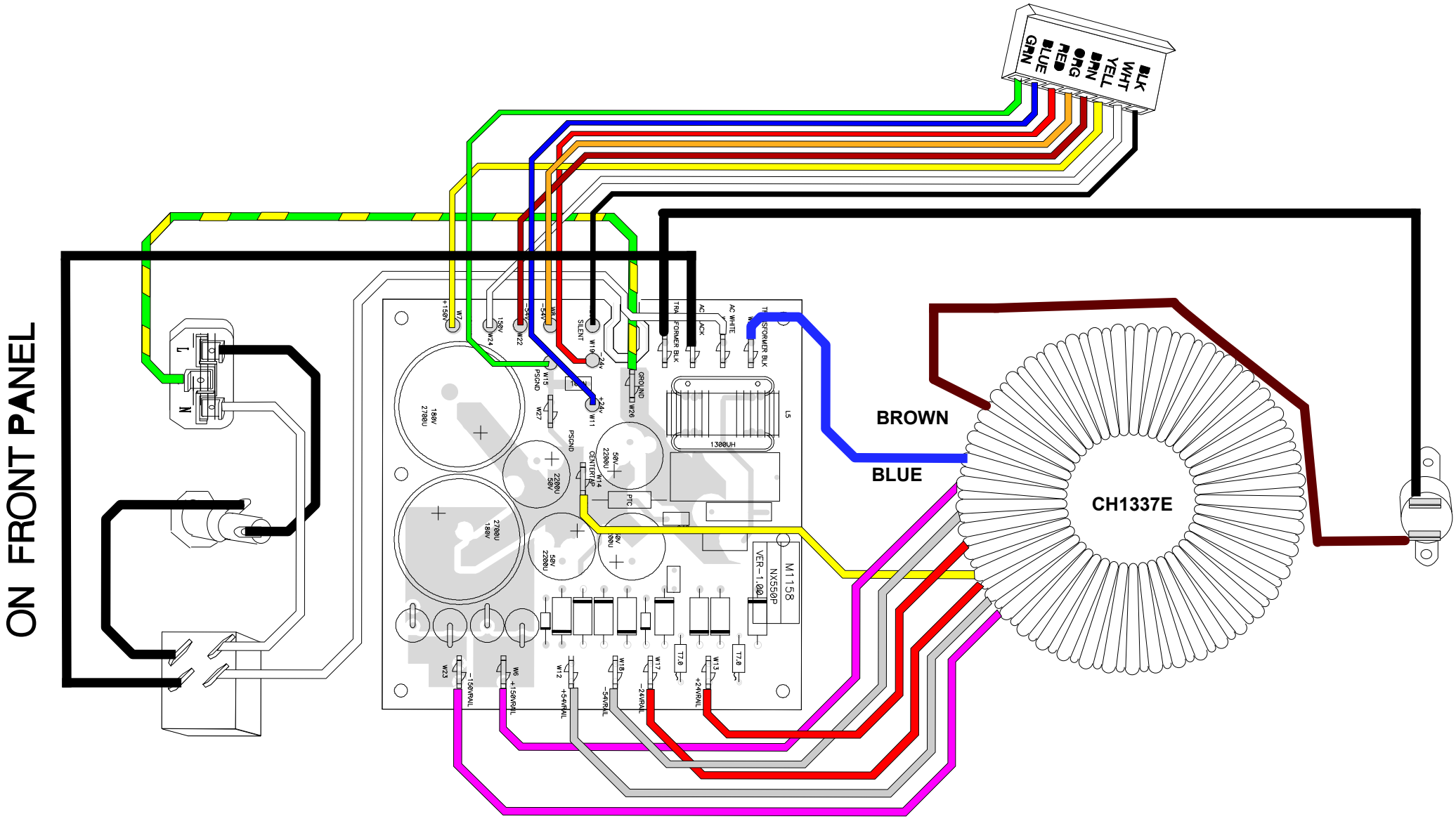
LEAD/PIN REFERENCE

0.128" NPT HOLES MUST NOT BE SECOND DRILLED

STM-BTB-600BRG

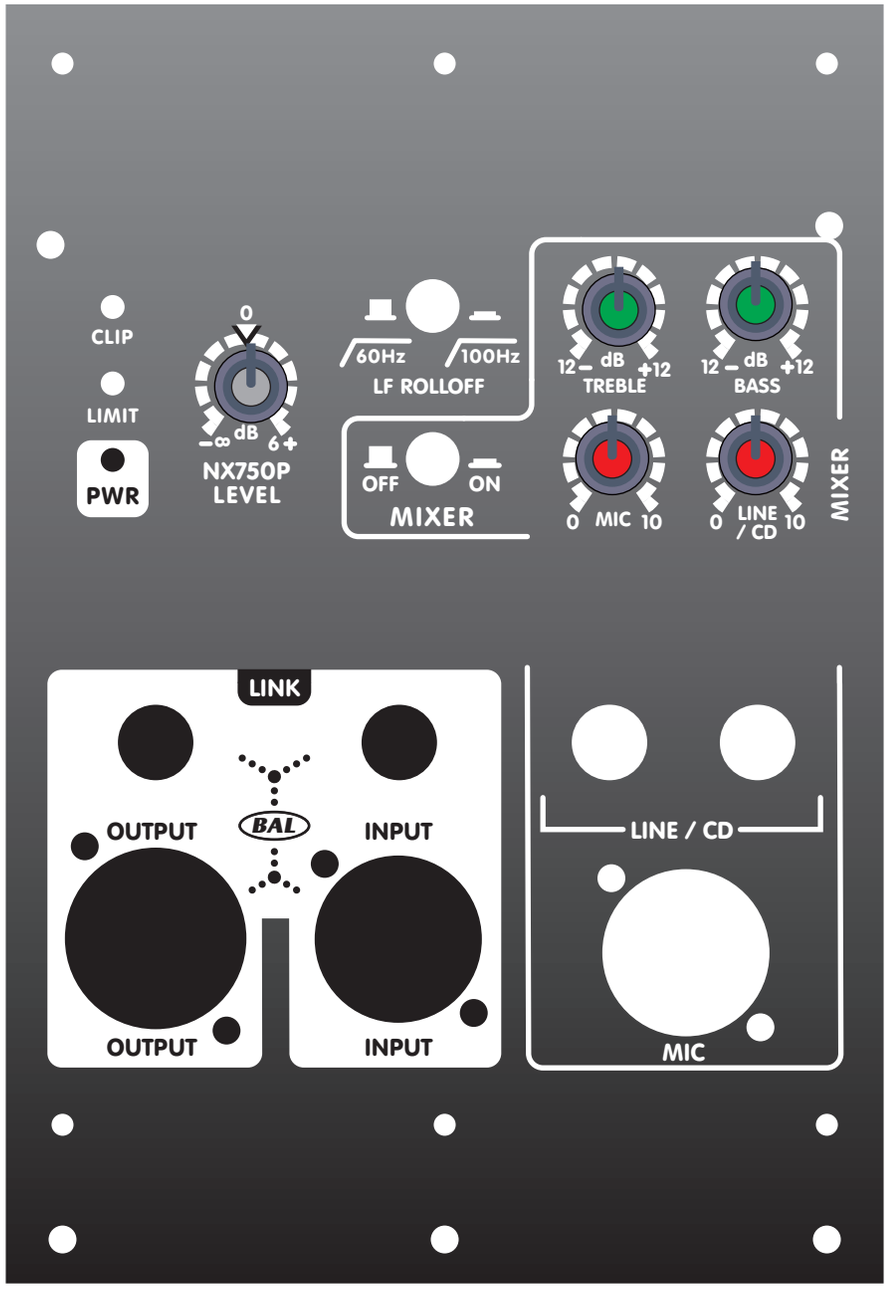


MT1 G MT2
TO-220



NX750P EXPORT -CE- 230V

MAR 23 /05



YS#9916 Gray Knob (qty: 1)

YS#9917 Green Knob (qty: 2)

YS#89915 Red Knob (qty: 2)

WIRING-Z452D-nx750p-control-KNOB-COLORS-1v1.ai